INDEX TO VOLUME 84

Abbie, A. A. Closure of cranial articulations in the skull of the Australian aborigine, 1

Abdominal wall muscles, anterior, in man, electromyographic study of patterns of activity of the. By W. F. Floyd and P. H. S. Silver, 132

Adrenal cortex of the albino rat, cytological and histochemical variations in the. By A. J. Cain and R. G. Harrison, 196

Aitken, J. T. Growth of nerve implants in voluntary muscle, 38

Allison, A. C. Book review. Ouvrages sur l'Organe Voméro-Nasal. By Louis Jacobson, 324

Anastomoses, arterial, a method for the study of. By D. A. McDonald and J. M. Potter, 327

Armstrong, J. A. An experimental study of the visual pathways in a reptile (*Lacerta vivipara*), 146

Australian aborigine, closure of cranial articulations in the skull of the. By A. A. Abbie, 1

Azygos veins in the albino rat, the development of the. By H. Butler, 83

Balinsky, B. I. On the prenatal growth of the mammary gland rudiment in the mouse, 227

Billingham, R. E. and Medawar, P. B. A note on the specificity of the corneal epithelium, 50

Books received, 325

Book Reviews:

Angewandte und Topographische Anatomie. Ein Lehrbuch für Studierende und Ärzte. By Gian Töndury. Reviewed by J. D. Boyd, 399

A Cyto-architectonic Atlas of the Rhombencephalon of the Rabbit. By H. Meessen and J. Olszewski. Reviewed by W. E. Le Gros Clark, 57

Functional Localization in the Frontal Lobes and Cerebellum. By J. F. Fulton. Reviewed by W. E. Le Gros Clark, 57

History of the Primates. By W. E. Le Gros Clark. Reviewed by C. M. West, 324

Man the Toolmaker. By Kenneth P. Oakley. Reviewed by C. M. West, 324

Ouvrages sur l'Organe Voméro-Nasal. By Louis Jacobson. Reviewed by A. C. Allison, 324

The Temporal Bone and the Ear. By Theodore H. Bast and Barry J. Anson. Reviewed by C. M. West, 57

Textbook of Histology. By J. F. Nonidez and W. F. Windle. Reviewed by K. C. Richardson, 58

The Vertebrate Body. By Alfred Sherwood Romer. Reviewed by G. R. de Beer, 399

Borghese, E. The development *in vitro* of the submandibular and sublingual glands of *Mus musculus*, 287

— Explantation experiments on the influence of the connective tissue capsule on the development of the epithelial part of the submandibular gland of *Mus musculus*, 303

Boyd, J. D. Book review. Angewandte und Topographische Anatomie. Ein Lehrbuch für Studierende und Ärzte. By Gian Töndury, 399

Butler, H. The development of the azygos veins in the albino rat, 83

Cain, A. J. and Harrison, R. G. Cytological and histochemical variations in the adrenal cortex of the albino rat, 196

Cervical sympathetic ganglia, sources of arterial blood supply to the superior and middle, and the ganglion intermédiaire. By E. L. Patterson, 329

Clark, W. E. Le Gros. Book review. A Cyto-architectonic Atlas of the Rhombencephalon of the Rabbit. By H. Meessen and J. Olszewski, 57

— Book review. Functional Localization in the Frontal Lobes and Cerebellum. By J. F. Fulton, 57

Closure of cranial articulations in the skull of the Australian aborigine. By A. A. Abbie, 1

Comparison of fracture repair in the frog, lizard and rat. By J. J. Pritchard and A. J. Ruzicka, 236

Connective tissue capsule, explantation experiments on the influence of the, on the development of the epithelial part of the submandibular gland of *Mus musculus*. By E. Borghese, 303

Cornea, a critical evaluation of methods used to demonstrate tissue neural elements, illustrated by reference to the. By G. Weddell and E. Zander, 168

Corneal epithelium, a note on the specificity of the. By R. E. Billingham and P. B. Medawar, 50

Coronary arteries in Dipnoan fishes, a description of the, and some remarks on their importance from the evolutionary standpoint. By G. E. H. Foxon, 121

Critical evaluation of methods used to demonstrate tissue neural elements, illustrated by reference to the cornea. By G. Weddell and E. Zander, 168

Cytological and histochemical variations in the adrenal cortex of the albino rat. By A. J. Cain and R. G. Harrison, 196

Davies, J. The pronephros and the early development of the mesonephros in the duck, 95

De Beer, G. R. Book review. The Vertebrate Body. By Alfred Sherwood Romer, 399

Description of the coronary arteries in Dipnoan fishes and some remarks on their importance from the evolutionary standpoint. By G. E. H. Foxon, 121

Development of the azygos veins in the albino rat. By H. Butler, 83

Development *in vitro* of the submandibular and sublingual glands of *Mus musculus*. By E. Borghese, 287

Differentiation of mammalian epidermis in tissue culture. By Jean Hanson, 30

Doran, F. S. A. The intra-mural blood supply of the upper jejunum in man, 283

Duck, the pronephros and the early development of the mesonephros in the. By J. Davies, 95

Effect of malnutrition as compared with hypophysectomy on organ weight of the albino rat. By L. M. Rinaldini, 262

Electromyographic study of patterns of activity of the anterior abdominal wall muscles in man. By W. F. Floyd and P. H. S. Silver, 132
Epidermis, mammalian, differentiation of, in tissue culture. By Jean Hanson, 30
Epithelium, corneal, a note on the specificity of the. By R. E. Billingham and P. B. Medawar, 50
Experimental study of the visual pathways in a reptile (*Lacerta vivipara*). By J. A. Armstrong, 146
Explantation experiments on the influence of the connective tissue capsule on the development of the epithelial part of the submandibular gland of *Mus musculus*. By E. Borghese, 303

Fate of the nerves of the deciduous teeth. By A. Mohiuddin, 319
Fisher, R. B. and Parsons, D. S. The gradient of mucosal surface area in the small intestine of the rat, 272
Fishes, Dipnoan, a description of the coronary arteries in, and some remarks on their importance from the evolutionary standpoint, 121
Flexor muscles of the forearm and hand in lizards and mammals. By R. Wheeler Haines, 13
Floyd, W. F. and Silver, P. H. S. Electromyographic study of patterns of activity of the anterior abdominal wall muscles in man, 132
Forearm and hand in lizards and mammals, the flexor muscles of the. By R. Wheeler Haines, 13
Foxon, G. E. H. A description of the coronary arteries in Dipnoan fishes and some remarks on their importance from the evolutionary standpoint, 121
Fracture repair in the frog, lizard and rat, comparison of. By J. J. Pritchard and A. J. Ruzicka, 236
Frog, lizard and rat, comparison of fracture repair in the. By J. J. Pritchard and A. J. Ruzicka, 236

Ganglia, sources of arterial blood supply to the superior and middle cervical sympathetic, and the ganglion intermédiaire. By E. L. Patterson, 329
Gland, mammary, rudiment, on the prenatal growth of the, in the mouse. By B. I. Balinsky, 227
Gland, submandibular, of *Mus musculus*, explantation experiments on the influence of the connective tissue capsule on the development of the epithelial part of the. By E. Borghese, 303
Glands, submandibular and sublingual, of *Mus musculus*, the development *in vitro* of the. By E. Borghese, 287
Gradient of mucosal surface area in the small intestine of the rat. By R. B. Fisher and D. S. Parsons, 272
Growth of nerve implants in voluntary muscle. By J. T. Aitken, 38

Haines, R. Wheeler. The flexor muscles of the forearm and hand in lizards and mammals, 13
Hanson, Jean. Differentiation of mammalian epidermis in tissue culture, 30
Harrison, R. G. *See* Cain, A. J., joint authors, 196
Histochemical changes produced by cold and adrenaline in the suprarenal cortex of the adult male rat. By Frances B. Robinson and J. M. Yoffey, 32
Hypophysectomy, effect of malnutrition as compared with, on organ weight of the albino rat. By L. M. Rinaldini, 262

Intestine, small, of the rat, the gradient of mucosal surface area in the. By R. B. Fisher and D. S. Parsons, 272
Intra-mural blood supply of the upper jejunum in man. By F. S. A. Doran, 283

Jejunum, upper, in man, the intra-mural blood supply of the. By F. S. A. Doran, 283

Lizard, frog and rat, comparison of fracture repair in the. By J. J. Pritchard and A. J. Ruzicka, 236

McDonald, D. A. and Potter, J. M. A method for the study of arterial anastomoses, 327
Malnutrition, effect of, as compared with hypophysectomy on organ weight of the albino rat. By L. M. Rinaldini, 262
Mammary gland rudiment in the mouse, on the prenatal growth of the. By B. I. Balinsky, 227
Mandible, human, the relation of the direction of the mental foramen to the growth of the. By R. Warwick, 116
Medawar, P. B. *See* Billingham, R. E., joint authors, 50
Mental foramen, the relation of the direction of the, to the growth of the human mandible. By R. Warwick, 116
Mesonephros, the pronephros and the early development of the, in the duck. By J. Davies, 95
Method for the study of arterial anastomoses. By D. A. McDonald and J. M. Potter, 327
Mohiuddin, A. The fate of the nerves of the deciduous teeth, 319
Mouse, on the prenatal growth of the mammary gland rudiment in the. By B. I. Balinsky, 227
Mus musculus, the development *in vitro* of the submandibular and sublingual glands of. By E. Borghese, 287
Mus musculus, explantation experiments on the influence of the connective tissue capsule on the development of the epithelial part of the submandibular gland of. By E. Borghese, 303
Muscle, voluntary, growth of nerve implants in. By J. T. Aitken, 38
Muscles, anterior abdominal wall, in man, electromyographic study of patterns of activity of the. By W. F. Floyd and P. H. S. Silver, 132
Muscles, the flexor, of the forearm and hand, in lizards and mammals. By R. Wheeler Haines, 13

Nerve fibres, the staining of, in paraffin sections with silver. By G. J. Romanes, 104
Nerve implants, growth of, in voluntary muscle. By J. T. Aitken, 38
Nerves of the deciduous teeth, the fate of the. By A. Mohiuddin, 319
Nerves, human, the relationship between internodal length and growth in. By A. D. Vizoso, 342
Note on the specificity of the corneal epithelium. By R. E. Billingham and P. B. Medawar, 50

Parsons, D. S. *See* Fisher, R. B., joint authors, 272
Patterson, E. L. Sources of arterial blood supply to the superior and middle cervical sympathetic ganglia and the ganglion intermédiaire, 329

Potter, J. M. *See* McDonald, D. A., joint authors, 327
Prenatal growth of the mammary gland rudiment in the mouse. By B. I. Balinsky, 227
Pritchard, J. J. and Ruzicka, A. J. Comparison of fracture repair in the frog, lizard and rat, 236
Proceedings of the Anatomical Society of Great Britain and Ireland. (*See* supplementary index), 60
Pronephros and the early development of the mesonephros in the duck. By J. Davies, 95

Rat, albino. Cytological and histochemical variations in the adrenal cortex of the. By A. J. Cain and R. G. Harrison, 196
Rat, albino, the development of the azygos veins in the. By H. Butler, 83
Rat, albino, effect of malnutrition as compared with hypophysectomy on organ weight of the. By L. M. Rinaldini, 262
Rat, frog, lizard and, comparison of fracture repair in the. By J. J. Pritchard and A. J. Ruzicka, 236
Relation of the direction of the mental foramen to the growth of the human mandible. By R. Warwick, 116
Relationship between internodal length and growth in human nerves. By A. D. Vizoso, 342
Reptile (*Lacerta vivipara*), an experimental study of the visual pathways in a. By J. A. Armstrong, 146
Richardson, K. C. Book review. Textbook of Histology. By J. F. Nonidez and W. F. Windle, 58
Rinaldini, L. M. Effect of malnutrition as compared with hypophysectomy on organ weight of the albino rat, 262
Robinson, Frances B. and Yoffey, J. M. Histochemical changes produced by cold and adrenaline in the suprarenal cortex of the adult male rat, 32
Romanes, G. J. The staining of nerve fibres in paraffin sections with silver, 104
Ruzicka, A. J. *See* Pritchard, J. J., joint authors, 236

Silver, P. H. S. *See* Floyd, W. F., joint authors, 132
Skull of the Australian aborigine, closure of cranial articulations in the. By A. A. Abbie, 1
Sources of arterial blood supply to the superior and middle cervical sympathetic ganglia and the ganglion intermédiaire. By E. L. Patterson, 329
Staining of nerve fibres in paraffin sections with silver. By G. J. Romanes, 104
Suprarenal cortex of the adult male rat, histochemical changes produced by cold and adrenaline in the. By Frances B. Robinson and J. M. Yoffey, 32

Teeth, the fate of the nerves of the deciduous. By A. Mohiuddin, 319
Tissue culture, differentiation of mammalian epidermis in. By Jean Hanson, 30
Tissue neural elements, a critical evaluation of methods used to demonstrate, illustrated by reference to the cornea. By G. Weddell and E. Zander, 168

Veins, azygos, the development of the, in the albino rat. By H. Butler, 83
Visual pathways in a reptile (*Lacerta vivipara*), an experimental study of the. By J. A. Armstrong, 146
Vizoso, A. D. The relationship between internodal length and growth in human nerves, 342

Warwick, R. The relation of the direction of the mental foramen to the growth of the human mandible, 116
Weddell, G. and Zander, E. A critical evaluation of methods used to demonstrate tissue neural elements, illustrated by reference to the cornea, 168
West, C. M. Book review. The Temporal Bone and the Ear. By Theodore H. Bast and Barry J. Anson, 57
— Book reviews. History of the Primates (an introduction to the study of fossil man) by W. E. Le Gros Clark, and Man the Toolmaker by Kenneth P. Oakley, 324

Yoffey, J. M. *See* Robinson, Frances B., joint authors, 32

Zander, E. *See* Weddell, G., joint authors, 168

SUPPLEMENTARY INDEX OF PROCEEDINGS

Abdominal wall, anterior, in man, electromyographic investigation of muscle movement patterns studied with surface electrodes on the. By W. F. Floyd and P. H. S. Silver, 75

Aitken, J. T. Growth of nerve implants in muscle, 65

Alimentary tract, upper, and the menstrual cycle, squamous cells of the. By I. D. Henderson, 404

Allison, A. C. and Meyer, M. Secondary olfactory connexions in monkeys, 63

Amoroso, E. C. The source and composition of the uterine milk in the mare, 78

Amoroso, E. C. and Murray, C. B. Implantation and the yolk-sac placenta in the cat, 71

Anastomoses, arterio-venous, in the human stomach. By T. E. Barlow, 405

Armstrong, J. A. An experimental study of optic pathways in *Lacerta vivipara*, 70

Articular capsule, feline, the autonomic and somatic innervation of the. By E. P. Samuel, 408

Ashton, E. H. *See* Zuckerman, S., joint authors, 401

Atrio-ventricular bundle, the nervous constituent of the. By E. J. Field, 65

Bacsich, P. Some observations on the human foetal ovary, 75

Bailey, R. A. *See* Glees, P., joint authors, 64

Balinsky, B. I. On the pre-natal growth of the mammary gland rudiment, 67

Barlow, T. E. Arterio-venous anastomoses in the human stomach, 405

Baxter, J. S. Alkaline phosphatase in the mesonephric and metanephric tubules of man, 77

Bentall, H. H. *See* Harrison, R. J., joint authors, 400

Bones, long, of the limbs, the nutrient canal in the. By H. Hughes, 68

Bourne, G. H. Collagen and pre-collagen, 61

Bowden, R., Napier, J. and Whillis, J. Movements of digits in ulnar paralysis. (Film), 76

Boyd, J. D. Afferent nerve supply of innominate-subclavian arch in the human embryo and foetus, 67

— Argentaffin dendritic cells in hair follicles, 62

— 'Intermediate' lumbar sympathetic ganglia in the human foetus, 401

— Müller's (spheno-maxillary) muscle in the human embryo and foetus, 72

— Nerve supply of the tonsil, 79

Brain and cord, structure of axones within. By M. A. MacConaill, 69

Breward, Madge M. and Zuckerman, S. Multiple ovarian grafts, 68

Brierley, J. B. and Field, E. J. The fate of an intraneural crystalloid injection as demonstrated by the radio-active tracer technique, 61

Cathcart, E. P., Gairns, F. W. and Garven, H. S. D. The innervation of the human quiescent nipple, 67

Causey, G. The effect of pressure on conduction and nerve fibre size, 65

Causey, G. and Palmer, E. Early changes in the shape and size of a nerve fibre after crushing, 406

Cell division and cell differentiation, the metabolism of. By R. J. O'Connor, 407

Cervical sinus in the sheep, the formation and closure of the. By R. J. Scothorne, 407

Chicken embryo, regional differences in the oxygen consumption of the. By R. J. O'Connor, 401

Collagen and pre-collagen. By G. H. Bourne, 61

Conceptus, a pre-somite human, of about 14 days of age, with special reference to the yolk-sac formation. By W. R. M. Morton, 66

Cornea, observations on the innervation of the. By G. Weddell and E. Zander, 79

Corneal nerves, living, neurological techniques in relation to the anatomy of. By E. Zander and G. Weddell, 78

Crawford, G. N. C. Experiments on the longitudinal growth of tendons in rabbits, 68

Davies, D. V. The foetal membranes of the Weddell seal (*Leptonychotes weddelli*), 408

Davies, J. The pronephros and mesonephros of the duck, 72

Dawson, B. H. The blood supply of the human hypothalamus, 80

Dendritic cells, argentaffin, in hair follicles. By J. D. Boyd, 62

Dental nerve, inferior, of the cat, the post-natal development of the. By A. Mohiuddin, 405

Doran, F. S. A. The intramural blood supply of the upper jejunum in man. A radiological study, 403

Durward, A. and Rudall, K. M. Experiments on hair growth in the rat, 66

Ear, methods employed in demonstrating the anatomy of the. By Oliver Gray, 401

Embryo, chicken, regional differences in the oxygen consumption of the. By R. J. O'Connor, 401

Embryo, congenital cystic eye in a 5 mm. human. By W. R. M. Morton, 400

Embryo and foetus, human, afferent nerve supply of innominate-subclavian arch in the. By J. D. Boyd, 67

Embryo and foetus, human, Müller's (spheno-maxillary) muscle in the. By J. D. Boyd, 72

Embryonic tissue, mitotic inhibition in. By R. J. O'Connor, 408

Epiglottis, the neural pattern of the. By W. H. Feindel, 64

Evans, D. H. L. An investigation of the distribution of medullated fibres in the vagus nerve of the rabbit, 73

Eye, congenital cystic, in a 5 mm. human embryo. By W. R. M. Morton, 400

Feindel, W. H. The neural pattern of the epiglottis, 64

Fernand, V. S. V. and Young, J. Z. The composition of muscle nerves, 402

Field, E. J. The nervous constituent of the atrio-ventricular bundle, 65

— *See* Brierley, J. B., joint authors, 61

Field, E. J., Grayson, J. and Rogers, A. F. The effect of activity on the blood flow in the spinal cord, 402

Floyd, W. F. and Silver, P. H. S. Electromyographic investigation of muscle movement patterns studied with surface electrodes on the anterior abdominal wall in man, 75
Foetus, human, 'intermediate' sympathetic ganglia in the. By J. D. Boyd, 401
Fracture repair in *Lacerta vivipara*, an experimental study of. By J. J. Pritchard and A. J. Ruzicka, 69
Franklin, K. J. The renal shunt mechanism and anoxia (Preliminary note), 63

Gairns, F. W. *See* Cathcart, E. P., joint authors, 67
Ganglia, 'intermediate' lumbar sympathetic, in the human foetus. By J. D. Boyd, 401
Ganglia superior and middle cervical sympathetic, sources and arrangement of the ganglionic arteries to the. By E. L. Patterson, 406
Garven, H. S. D. *See* Cathcart, E. P., joint authors, 67
Gland, mammary, the development of the, (early intra-uterine phase). By E. S. R. Hughes, 60
Gland rudiment, mammary, on the pre-natal growth of the. By B. I. Balinsky, 67
Glees, P., Oppenheimer, D. R. and Bailey, R. A. Observations on ascending and descending tract degeneration following midbrain tractotomy in the human, 64
Goldby, F. and Mohiuddin, A. Preganglionic fibres of the vagus, 79
Gray, Oliver. Methods employed in demonstrating the anatomy of the ear, 401
Grayson, J. *See* Field, E. J., joint authors, 402

Hair follicles, argentaffin dendritic cells in. By J. D. Boyd, 62
Hair growth in the rat, experiments on. By A. Durward and K. M. Rudall, 66
Hairs, vibrissa-like, in the rabbit's leg, the innervation of. By G. Weddell, 69
Harris, G. W. Experiments on the hypophysial portal vessels, 62
Harris, H. and Joseph, J. Extension at the metacarpo-phalangeal and interphalangeal joints of the thumb, 73
Harrison, R. J. Observations on the seal ovary, 400
Harrison, R. J. and Bentall, H. H. The inferior vena cava in the seal, 400
Henderson, I. D. Squamous cells of the upper alimentary tract and the menstrual cycle, 404
Hill, W. C. Osman. Osteological racial differences in the newborn, 73
Howarth, F. Observations on the departure of substances from the spinal theca, 80
Hughes, E. S. R. The development of the mammary gland (early intra-uterine phase), 60
Hughes, H. The nutrient canal in the long bones of the limbs, 68
Hutchison, J. and Wyburn, G. M. Regenerated sensory pattern in grafted skin, 67
Hypophysial portal vessels, experiments on the. By G. W. Harris, 62
Hypothalamus, human, the blood supply of the. By B. H. Dawson, 80

Implantation and the yolk-sac placenta in the cat. By E. C. Amoroso and C. B. Murray, 71
Injection, the fate of an intra-neural crystalloid, as demonstrated by the radio-active tracer technique. By J. B. Brierley and E. J. Field, 61
Innominate-subclavian arch in the human embryo and foetus, afferent nerve supply of. By J. D. Boyd, 67
Intervertebral disc, the reaction of the, to experimental lesions. By R. Walmsley and J. W. Smith, 74
Intestine, large, alkaline phosphatase in the. By B. F. Martin, 404

Jacoby, F. *See* Martin, B. F., joint authors, 61
Jarrett, W. F. H. *See* Roberts, G. B. S., joint authors, 407
Jaw, limbs and, in man, the relative sizes of. By R. H. Shepherd, D. A. Sholl and A. Vizoso, 60
Jaw movements in foetal sheep, the anatomy of. By J. H. Scott, 77
Jejunum, upper, in man, the intramural blood supply of the. A radiological study. By F. S. A. Doran, 403
Joint sensation, an histological and sensory investigation to determine the role of the articular capsule in. By E. P. Samuel, 77
Joints, subtalar and calcaneo-cuboid, limitation of movement at the. By J. W. Smith, 75
Joints of the thumb, extension at the metacarpo-phalangeal and interphalangeal. By H. Harris and J. Joseph, 73
Joseph, J. *See* Harris, H., joint authors, 73

Kidney, the nerve supply of the. By G. A. G. Mitchell, 70
Kirk, J. A note on pigmentation of the skin, 75

Lacrimal fluid, the distribution of the. By E. Wolff, 60
Larynx, action of posterior crico-arytenoid muscle of the. By V. E. Negus, 68
Last, R. J. The popliteus muscle and the lateral meniscus, 62
Limbs and jaw in man, the relative sizes of. By R. H. Shepherd, D. A. Sholl and A. D. Vizoso, 60
Limbs, the nutrient canal in the long bones of the. By H. Hughes, 68
Lockhart, R. D. A brief note upon the trapezius muscle-persisting fallacies, 406
Lumbar sympathetic ganglia, 'intermediate', in the human foetus. By J. D. Boyd, 401
Lungs, the blood supply to the. By E. W. Walls, 81

MacConaill, M. A. Structure of axones within brain and cord, 69
McGregor, I. The return of sweating in grafted skin, 76
Martin, B. F. Alkaline phosphatase in the large intestine, 404
Martin, B. F. and Jacoby, F. Diffusion phenomenon complicating the histochemical reaction for alkaline phosphatase, 61
Menstrual cycle, squamous cells of the upper alimentary tract and the. By I. D. Henderson, 404
Meyer, M. *See* Allison, A. C., joint authors, 63
Midbrain tractotomy in the human, observations on ascending and descending tract degeneration following. By P. Glees, D. R. Oppenheimer and R. A. Bailey, 64

Mitchell, G. A. G. Microradiographic demonstration of tissues treated by metallic impregnation, 405
— The nerve supply of the kidney, 70
— The renal fascia, 76
Mitchell, R. Some observations on the histology of the infant testicle, 75
Mohiuddin, A. *See* Goldby, F., joint authors, 79
Monkey, green, the influence of geographical isolation on the teeth of the. By S. Zuckerman and E. H. Ashton, 401
Monkey, rhesus, a study of retrograde degeneration in the oculomotor nucleus of the, with a note on a method of recording it. By R. Warwick, 402
Monro, P. A. G. Sudomotor escape areas after thoraco-lumbar sympathectomies, 401
Morton, W. R. M. Congenital cystic eye in a 5 mm. human embryo, 400
— A pre-somite human conceptus of about 14 days of age, with special reference to the yolk-sac formation, 66
Murray, C. B. *See* Amoroso, E. C., joint authors, 71
Muscle, crico-arytenoid, of the larynx, action of posterior. By V. E. Negus, 68
Muscle, growth of nerve implants in. By J. T. Aitken, 65
Muscle movement patterns, electromyographic investigation of, studied with surface electrodes on the anterior abdominal wall in man. By W. F. Floyd and P. H. S. Silver, 75
Muscle, Müller's (spheno-maxillary), in the human embryo and foetus. By J. D. Boyd, 72
Muscle nerves, the composition of. By V. S. V. Fernand and J. Z. Young, 402
Muscle-persisting fallacies, trapezius, a brief note upon the. By R. D. Lockhart, 406
Muscle, popliteus, and the lateral meniscus. By R. J. Last, 62

Napier, J. *See* Bowden, R., joint authors, 76
Negus, V. E. Action of posterior crico-arytenoid muscle of the larynx, 68
Nerve fibre, early changes in the shape and size of a, after crushing. By G. Causey and E. Palmer, 406
Nerve fibre size, the effect of pressure on conduction and. By G. Causey, 65
Nerve implants in muscle, growth of. By J. T. Aitken, 65
Nerve, inferior dental, of the cat, the post-natal development of the. By A. Mohiuddin, 405
Nerve, mental, growth changes in the, and their relationship to the direction of the mental foramen. By R. Warwick, 72
Nerve, vagus, of the rabbit, an investigation of the distribution of medullated fibres in the. By D. H. L. Evans, 73
Nerves, corneal, neurological techniques in relation to the anatomy of living. By E. Zander and G. Weddell, 78
Nerves, muscle, the composition of. By V. S. V. Fernand and J. Z. Young, 402
Nervous system, central, of *Natrix sipedon*, the myelinization of the. By Francis James Warner, 403
Nipple, human quiescent, the innervation of the. By E. P. Cathcart, F. W. Gairns and H. S. D. Garven, 67
O'Connor, R. J. The metabolism of cell division and cell differentiation, 407
— Mitotic inhibition in embryonic tissue, 408
— Regional differences in the oxygen consumption of the chicken embryo, 401
Oculomotor nucleus of the rhesus monkey, a study of retrograde degeneration in the, with a note on a method of recording it. By R. Warwick, 402
Olfactory connexions, secondary, in monkeys. By A. C. Allison and M. Meyer, 63
Oppenheimer, D. R. *See* Glees, P., joint authors, 64
Optic nerve in the mouse, medullation of the. By G. J. Romanes, 79
Optic pathways in *Lacerta vivipara*, an experimental study of. By J. A. Armstrong, 70
Osteoblast, maturation phenomena in the. By J. J. Pritchard, 404
Osteological racial differences in the newborn. By W. C. Osman Hill, 73
Ovarian grafts, multiple. By Madge M. Breward and S. Zuckerman, 68
Ovary, human foetal, some observations on the. By P. Bacsich, 75
Ovary, seal, observations on the. By R. J. Harrison, 400

Pain, the reference of, aroused in the skin. By D. C. Sinclair, 64
Palmer, E. *See* Causey, G., joint authors, 406
Patterson, E. L. Sources and arrangement of the ganglionic arteries to the superior and middle cervical sympathetic ganglia, 406
Phosphatase, alkaline, diffusion phenomenon complicating the histochemical reaction for. By B. F. Martin and F. Jacoby, 61
Phosphatase, alkaline, in the large intestine. By B. F. Martin, 404
Phosphatase, alkaline, in the mesonephric and metanephric tubules of man. By J. S. Baxter, 77
Placenta, yolk-sac, implantation and the, in the cat. By E. C. Amoroso and C. B. Murray, 71
Polysaccharides, higher, the histochemical identification of. By G. B. S. Roberts and W. F. H. Jarrett, 407
Pritchard, J. J. Maturation phenomena in the osteoblast, 404
Pritchard, J. J. and Ruzicka, A. J. An experimental study of fracture repair in *Lacerta vivipara*, 69
Pronephros and mesonephros of the duck. By J. Davies, 72
Pulp space, an oblique proximal septum of the. By J. L. Wilkinson, 409

Racial differences, osteological, in the newborn. By W. C. Osman Hill, 73
Radio-active tracer technique, the fate of an intra-neural crystalloid injection as demonstrated by the. By J. B. Brierley and E. J. Field, 61
Renal fascia. By G. A. G. Mitchell, 76
Renal shunt mechanism and anoxia (preliminary note). By K. J. Franklin, 63
Roberts, G. B. S. and Jarrett, W. F. H. The histochemical identification of higher polysaccharides, 407
Rogers, A. F. *See* Field, E. J., joint authors, 402
Romanes, G. J. Medullation of the optic nerve in the mouse, 79

Rudall, K. M. *See* Durward, A., joint authors, 66
Ruzicka, A. J. *See* Pritchard, J. J., joint authors, 69

Samuel, E. P. The autonomic and somatic innervation of the feline articular capsule, 408
— An histological and sensory investigation to determine the role of the articular capsule in joint sensation, 77
Scothorne, R. J. The formation and closure of the cervical sinus in the sheep, 407
Scott, J. H. The anatomy of jaw movements in foetal sheep, 77
Seal, the inferior vena cava in the. By R. J. Harrison and H. H. Bentall, 400
Seal ovary, observations on the. By R. J. Harrison, 400
Seal, Weddell, (*Leptonychotes weddelli*) the foetal membranes of the. By D. V. Davies, 408
Shepherd, R. H., Sholl, D. A. and Vizoso, A. The relative sizes of limbs and jaw in man, 60
Sholl, D. A. *See* Shepherd, R. H., joint authors, 60
Silver, P. H. S. *See* Floyd, W. F., joint authors, 75
Sinclair, D. C. The reference of pain aroused in the skin, 64
Skin, grafted, regenerated sensory pattern in. By J. Hutchison and G. M. Wyburn, 67
Skin, grafted, the return of sweating in. By I. McGregor, 76
Skin, pigmentation of the, a note on. By J. Kirk, 75
Skin, the reference of pain aroused in the. By D. C. Sinclair, 64
Smith, J. W. Limitation of movement at the subtalar and calcaneo-cuboid joints, 75
— *See* Walmsley, R., joint authors, 74
Spinal cord, the effect of activity on the blood flow in the. By E. J. Field, J. Grayson and A. F. Rogers, 402
Spinal theca, observations on the departure of substances from the. By F. Howarth, 80
Stomach, arterio-venous anastomoses in the human. By T. E. Barlow, 405
Sudomotor escape areas after thoraco-lumbar sympathectomies. By P. A. G. Monro, 401

Teeth, of the green monkey, the influence of geographical isolation on the. By S. Zuckerman and E. H. Ashton, 401
Tendons in rabbits, experiments on the longitudinal growth of. By G. N. C. Crawford, 68
Testicle, infant, some observations on the histology of the. By R. Mitchell, 75
Thoraco-lumbar sympathectomies, sudomotor escape areas after. By P. A. G. Monro, 401
Thrombosis, popliteal, the anatomy of. By F. R. Wilde, 74
Thumb, extension at the metacarpo-phalangeal and interphalangeal joints of the. By H. Harris and J. Joseph, 73
Tissue, embryonic, mitotic inhibition in. By R. J. O'Connor, 408
Tissues treated by metallic impregnation, micro-radiographic demonstration of. By G. A. G. Mitchell, 405
Tonsil, nerve supply of the. By J. D. Boyd, 79
Trapezius muscle-persisting fallacies, a brief note upon the. By R. D. Lockhart, 406

Ulnar paralysis, movements of digits in. (Film.) By R. Bowden, J. Napier and J. Whillis, 76
Uterine milk in the mare, the source and composition of the. By E. C. Amoroso, 78

Vagus nerve of the rabbit, an investigation of the distribution of medullated fibres in the. By D. H. L. Evans, 73
Vagus, preganglionic fibres of the. By F. Goldby and A. Mohiuddin, 79
Vena cava, inferior, in the seal. By R. J. Harrison and H. H. Bentall, 400
Vizoso, A. *See* Shepherd, R. H., joint authors, 60

Walls, E. W. The blood supply to the lungs, 81
Walmsley, R. and Smith, J. W. The reaction of the intervertebral disc to experimental lesions, 74
Warner, Francis James. The myelinization of the central nervous system of *Natrix sipedon*, 403
Warwick, R. Growth changes in the mental nerve and their relationship to the direction of the mental foramen, 72
— A study of retrograde degeneration in the oculomotor nucleus of the rhesus monkey, with a note on a method of recording it, 402
Weddell, G. The innervation of vibrissa-like hairs in the rabbit's leg, 69
— *See* Zander, E., joint authors, 78
Weddell, G. and Zander, E. Observations on the innervation of the cornea, 79
Whillis, J. *See* Bowden, R., joint authors, 76
Wilde, F. R. The anatomy of popliteal thrombosis, 74
Wilkinson, J. L. An oblique proximal septum of the pulp space, 409
Wolff, E. The distribution of the lacrimal fluid, 60
Wyburn, G. M. *See* Hutchison, J., joint authors, 67

Young, J. Z. *See* Fernand, V. S. V., joint authors, 402

Zander, E. and Weddell, G. Neurological techniques in relation to the anatomy of living corneal nerves, 78
— *See* Weddell, G., joint authors, 79
Zuckerman, S. and Ashton, E. H. The influence of geographical isolation on the teeth of the green monkey, 401
— *See* Breward, Madge M., joint authors, 68